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RECENT LITERATURE.

Seitaro Goto.—Studies on the Ectoparasitic Trematodes of Japan.[1]—This volume forms one of the most important pieces of work which has ever been written on the ectoparasitic trematodes, and is the result of about four years of careful and exact study. In the first part (176 pgs.) of the work, the author treats the anatomy in detail; then follow several pages of biological notes, a detailed account (pp. 182–253) of the classification, analytical key (pp. 254–261) to genera and species described, bibliography (pp. 262–267), and 27 finely drawn and well executed plates. Revised generic and specific diagnoses are given, together with a historical review of the different genera.

The following genera and species are described:—

- I. MICROCOTYLE B. & H., 1863:—
  - 1. *M. caudata* n. sp., gills of *Sebastes* sp. sp.;
  - 2. *M. sebastis* n. sp., gills of *Sebastes* sp. sp.;
  - 3. *M. elegans* n. sp., gills of *Scombrops chilodipteroides;*
  - 4. *M. reticulata* n. sp., gills of *Stromateus argenteus;*
  - 5. *M. truncata* n. sp., gills of *Pristipoma Japonicum;*
  - 6. *M. fusiformis* n. sp., gills of *Centronotus nebulosus;*
  - 7. *M. chiri* n. sp., gills of *Chirus hexagrammus;*
  - 8. *M. sciænæ* n. sp., gills of *Sciæna sina;*
- II. AXINE Abildg., 1794:—
  - 9. *A. heterocerca* n. sp., gills of *Seriola quinqueradiata;*
  - 10. *A. aberrans* n. sp., gills of *Belone schismatorhynchus;*
  - 11. *A. triangularis* n. sp., gills of *Anthias Schlegelii;*
- III. OCTOCOTYLE Dies., 1850:—
  - 12. *O. major* n. sp., gills of *Scomber colias;*
  - 13. *O. minor* n. sp., gills of *Scomber colias;*
- IV. DICLIDOPHORA Dies., 1850:—
  - 14. *D. smaris* Ijima MS., mouth-cavity of *Smaris vulgaris,* on caudal segment of a Cymothoa;
  - 15. *D. elongata* n. sp., mouth-cavity of *Pagrus tumifrons,* occasionally on the Cymothoa in the oral cavity;
  - 16. *D. sessilis* n. sp., oral cavity of *Choerops Japonicus;*
  - 17. *D. tetrodonis* n. sp., gills of *Tetrodon* sp., sp.;
- V. HEXACOTYLE Blainv., 1828:—
  - 18. *H. acuta* n. sp., giils of *Thynnus sibi;*
  - 19. *H. grossa* n. sp., gills of *Th.* sp.;
- VI. ONCHOCOTYLE Dies., 1850:—
  - 20. *O. spinacis* n. sp., gills of *Spinax* sp.;
- VII. CALICOTYLE Dies., 1850:—
  - 21. *C. Mitsukurii* n. sp., cloaca of *Rhina* sp.?;
- VIII. MONOCOTYLE Tschbrg., 1878:—
  - 22. *M. Ijimae* n. sp., oral cavity of *Trygon pastinaca;*

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[1] Journ. College of Science, Imp. Univ., Tokyo. Vol. VIII, Part I, 1894, 273 pgs., 27 plates.

IX. EPIBDELLA Blainv., 1828: —
23. *E. Ishikawae* n. sp., gills of *Lethrinus* sp.?;
24. *E. ovata* n. sp., gills of *Anthias Schlegelii;*
X. TRISTOMUM Cur., 1817: —
25. *T. sinuatum* n. sp., gill-plates of *Histiophorus* sp.;
26. *T. ovale* n. sp., oral cavity of *H. orientalis*, H. sp., and? *Cybium*;
27. *T. rotundum* n. sp., gills of *Xiphias gladius;*
28. *T. foliaceum* n. sp., gills of gen. sp. (Japanese Hazara);
29. *T. Nozawae* n. sp., fins of *Thynnus sibi;*
30. *T. biparasiticum* n. sp., carapace of a copepod (*Parapetalus*) and gills of *Thynnus albacora.*

It is somewhat striking that of all the thirty Japanese species described, the author does not consider a single one identical with any forms heretofore mentioned, but when one looks at the magnificent anatomical work contained in this volume he certainly feels very far from calling specific determinations into question.

Several points in Goto's interpretation of anatomical and histological structures are worthy of special notice: —

1. The prismatic, refractive fibres, which constitute the wall of the suckers in the genera *Axine, Microcotyle, Octocotyle, Diclidophora, Hexacotyle* and *Onchocotyle*, are usually looked upon as muscular fibres, but Goto agrees with Wright and Macallum (in *Spyranura*) in considering these fibres more of a non-contractile supportive, connective tissue nature.

2. The penis "is to be regarded as formed by an elevation of the wall of the genital atrium around the opening of the vas deferens and a simultaneous displacement of the latter from the base of the penis towards its top; so that the cavity of the penis is morphologically speaking as much the external surface of the body as the genital atrium, and the prostate glands are therefore to be regarded as a special modification of the dermal glands,—a view clearly in accordance with some facts observed [by Haswell] in Temnocephala."

3. Agreeing with Looss, Goto considers the vagina of the Cestoda homologous with the uterus of the Trematoda. Laurer's canal of the Digenea is homologized with the genito-intestinal canal of the ectoparasitic Trematoda, the receptaculum vitelli of *Aspidogaster* and the "anterior blind vagina" of *Amphilina.* While Looss looks upon the uterus of the Cestoda as homologous with the Laurer's canal of distomes, Goto homologizes the uterus of the Cestoda with the vagina of the monogenetic Trematoda. These homologies are discussed at length and are diagrammatically figured on Pl. XXVII.

For important and interesting discussions of other histological and anatomical structures we must refer to the original work.

C. W. STILES.